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(71) Applicant (for all designated States except US): THOMSON LICENSING S. A. [FR/FR]; 46 Quai A. Le Gallo, F-92648 Boulogne Cedex (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DRAZIC, Valter [FR/FR]; 7 Allee du Pigeon Blanc, F-35830 Betton (FR). HALL JR, Estill, Thone, [US/US]; 9978 Niagara Drive, Fishers, IN 46038 (US).

(74) Agents: TRIPOLI, Joseph, S. et al.; c/o THOMSON Licensing Inc., 2 Independence Way, Suite #2, Princeton, NJ 08540 (US).

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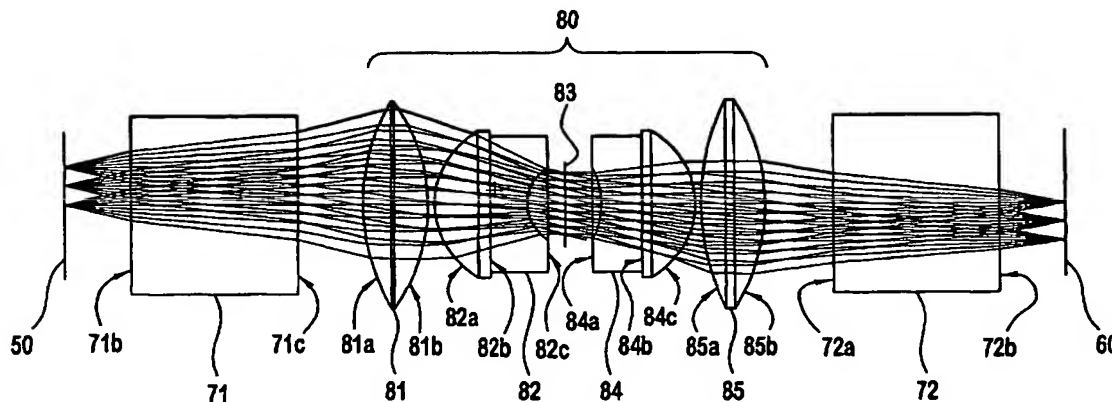
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(54) Title: IMAGER TO IMAGER RELAY LENS SYSTEM



(57) Abstract: A lens system for use in a two-stage projection system that relays light output from a first imager on a pixel-by-pixel basis onto a second imager (e.g. an LCOS). The lens system includes a double gauss lens set having a distortion of less than about 0.015% with at least about 90% of the light energy of a specific pixel projected within about a 15.4 micrometer square. Thus a projection system that enhances the contrast ratio for video images, particularly in the dark state, and reduces contouring artifacts, can be achieved.

# INTERNATIONAL SEARCH REPORT

International Application No

PC 03/38199

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04N5/74 G02B13/22

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04N G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, COMPENDEX, INSPEC, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	US 6 339 503 B1 (WAKELIN SUZANNE ET AL) 15 January 2002 (2002-01-15) figure 5 column 1, line 34 -column 2, line 67 ---	1-16
X	US 5 625 495 A (MOSKOVICH JACOB) 29 April 1997 (1997-04-29) figure 10 abstract ---	1-16
X	US 3 391 968 A (BETENSKY ELLIS L) 9 July 1968 (1968-07-09) abstract; figure 1 ---	1-16
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

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International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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